

**From:** [Mitchell, Tanya](#)  
**To:** [Walls \(Young\), Suzy](#)  
**Cc:** "[\(pete.bergeron@chevron.com\)](#)"; [Draikiwicz, Michael \(michael.draikiwicz@novartis.com\)](#); "[\(pete.bergeron@chevron.com\)](#)"; [Persico, John](#)  
**Subject:** RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13  
**Date:** Thursday, June 25, 2015 2:14:26 PM

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**Confirmation of this email is requested.**

Suzy,

There is one minor edit required before I can approve FCR-08. The multiple revision dates on the form would imply that there were other FCR-08 with modifications to the original FCR-08. If possible, can you finalize the date to 6/24/15 in various locations, as appropriate. I'm not sure if I caught this on previous FCRs but, FCR-08 was never approved thus, this will be the first version and no revisions.

A revised FCR-08 for MW-13 is requested. Should you have any questions or concerns regarding this email, please notify me receipt of this email.

Regards,

Tanya

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**From:** Walls (Young), Suzy [mailto:[Suzy.Walls@arcadis-us.com](mailto:Suzy.Walls@arcadis-us.com)]

**Sent:** Thursday, June 25, 2015 12:56 PM

**To:** Mitchell, Tanya

**Cc:** Gary M. Fisher; [Draikiwicz, Michael \(michael.draikiwicz@novartis.com\)](#); '[\(pete.bergeron@chevron.com\)](#)'; [Persico, John](#); [Ricci, Richard F.](#); [mfaigen@issuesllc.com](#); [Gutherz, Andrew](#)

**Subject:** RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13

Tanya,

The FCR-08 has been revised as requested. However, CDM indicated that USEPA's analytical laboratory has changed since the December 17, 2014 email that documents USEPA's required pore-water sample volumes. Please confirm that the volumes listed below are still correct for USEPA split samples so that we can ensure we have enough volume prior to deployment.

**Sample location PW-1**

With MS/MSD the total PDB volume is 2100 ml, from the following:

- VOC – 2 HCL preserved vials – total volume with MS/MSD is 80 ml
- Metals and Mercury – 1 HNO<sub>3</sub> preserved poly – total volume with MS/MSD is 1 L.
- Cyanide - 1 NaOH preserved poly – total volume with MS/MSD is 1 L.

With MS/MSD the total volume is 7 L, from the following:

- SVOC – 1 amber unpreserved – 1 L no MS/MSD
- Pesticides - 1 amber unpreserved – the total volume with MS/MSD is 3 L.
- PCBs - 1 amber unpreserved – the total volume with MS/MSD is 3 L.

Thanks,

Suzy

**Suzy Walls** | Senior Ecologist / Certified Project Manager | [suzy.walls@arcadis-us.com](mailto:suzy.walls@arcadis-us.com)

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**From:** Mitchell, Tanya [mailto:[Mitchell.Tanya@epa.gov](mailto:Mitchell.Tanya@epa.gov)]

**Sent:** Tuesday, June 23, 2015 3:59 PM

**To:** Walls (Young), Suzy

**Cc:** Gary M. Fisher; Draikiwicz, Michael ([michael.draikiwicz@novartis.com](mailto:michael.draikiwicz@novartis.com)); '[pete.bergeron@chevron.com](mailto:pete.bergeron@chevron.com)'; Persico, John  
**Subject:** RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13  
**Confirmation of this email is requested.**

Suzy,

I have reviewed the redline revised FCR-08 and it is not approved as submitted. The purpose of the FCR is to document changes in field activities that are inconsistent with the approved SAP/QAPP. Please delete the last sentence in the “**RECOMMENDED MODIFICATIONS**.” EPA previously submitted sample volumes via email to ARCADIS on 12/17/14.

A revised FCR-08 for MW-13 is requested within three days of receipt of this email. Should you have any questions or concerns regarding this email, please notify me receipt of this email.

Regards,  
Tanya

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**From:** Walls (Young), Suzy [<mailto:Suzy.Walls@arcadis-us.com>]

**Sent:** Thursday, June 18, 2015 5:04 PM

**To:** Mitchell, Tanya

**Cc:** Gary M. Fisher; Draikiwicz, Michael ([michael.draikiwicz@novartis.com](mailto:michael.draikiwicz@novartis.com)); '[pete.bergeron@chevron.com](mailto:pete.bergeron@chevron.com)'; Persico, John; Ricci, Richard F.

**Subject:** RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13

Tanya,

We have revised FCR-08 as requested. While we removed the email references, we maintained the hierarchy of sample analysis for the PushPoint samples, as Table 1 in the SAP does not clearly state that ARCADIS samples will be collected before USEPA samples, and also does not discuss the order or collection of duplicates and MS/MSD samples.

I have attached a version of this FCR in RLSO and also as a clean version, so you can see our changes. Please let me know if you have any other questions or comments.

Thanks,  
Suzy

**Suzy Walls** | Senior Ecologist / Certified Project Manager | [suzy.walls@arcadis-us.com](mailto:suzy.walls@arcadis-us.com)  
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**From:** Mitchell, Tanya [<mailto:Mitchell.Tanya@epa.gov>]

**Sent:** Tuesday, June 16, 2015 10:01 AM

**To:** Walls (Young), Suzy

**Cc:** Gary M. Fisher; Draikiwicz, Michael ([michael.draikiwicz@novartis.com](mailto:michael.draikiwicz@novartis.com)); '[pete.bergeron@chevron.com](mailto:pete.bergeron@chevron.com)'; Persico, John

**Subject:** RE: Rolling Knolls - FCR-08 Pore-water samples at MW-13

**Confirmation of this email is requested.**

Hi Suzy,

I have reviewed FCR-08 and it is not approved as submitted. The purpose of the FCR is to document changes in field activities that are inconsistent with the approved SAP/QAPP. As previously discussed with the Group and ARCADIS, a FCR is generally 1-2 pages. The primary purpose is to change MW-13 installation to pore water samples. The analytical parameters should be consistent with the approved analyses in the SAP Table 1. Please resubmit the FCR-08 with references to the SAP/QAPP. The attached emails should be deleted along with the references to emails in the FCR. It is appropriate to retain Figure 1 in the FCR.

A revised FCR-08 for MW-13 is requested within three days of receipt of this email. Should you have any questions or concerns regarding this email, please notify me receipt of this email.

Regards,  
Tanya

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**From:** Walls (Young), Suzy [<mailto:Suzy.Walls@arcadis-us.com>]

**Sent:** Tuesday, June 09, 2015 3:58 PM

**To:** Mitchell, Tanya

**Cc:** Ricci, Richard F.; Gary M. Fisher; Draikiwicz, Michael ([michael.draikiwicz@novartis.com](mailto:michael.draikiwicz@novartis.com)); '([pete.bergeron@chevron.com](mailto:pete.bergeron@chevron.com))'; [mfaigen@issuesllc.com](mailto:mfaigen@issuesllc.com); Persico, John; Gutherz, Andrew

**Subject:** Rolling Knolls - FCR-08 Pore-water samples at MW-13

Tanya,

The Field Change Request for the collection of porewater samples in place of MW-13 is attached.

Please let me know if you have any questions or comments.

Thanks,

Suzy

**Suzy Walls** | Ecologist / Certified Project Manager | [suzy.walls@arcadis-us.com](mailto:suzy.walls@arcadis-us.com)

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